



Human_p53 WEEPQSVEPPPLSQE[TFSDLEWKLEPENN[-----LSP--LPSQAMD
 Xeno_p53 ME-PESSETGMDDPLSQE[TFEDLWSLEP-D-----PEQTVT
 Squid_p53 MSQGTS-----PNSQETFNLWDSLEQVTANEYTQIHERGVGYEYHEAEDQTSTDEI[S
 CPB_p53 MS-SQSD-----FLPPDVQNFLLAEMEGD-----NMDNLN
 Trib_p53A MS-QQS-----QFSDIIPDVKFLEDH-----GEKDDV
 Trib_p53B -----V-----V
 Helio_p53 -----V-----V
 Dros_p53 MYISQ[-----MSWKESTDSEDDSTEVDIK-----EDPKTV
 consensus m qs et 1 le

Human_p53 DLMLSPDDI-----EQWFTEDPGPDEAFRMPEA[PRV-----APAPAP[PAAPAPA[SW
 Xeno_p53 CREDNL[-----EFEDYPLAADM[-----V[QEGGLMGNNAVPTV[-----
 Squid_p53 YR[QD[PYGRSESYDLLNP[INQIEAPMP[IA[DTQNNPLVNHC[PYEDMPV[SSTPYS[PHDH
 CPB_p53 FFKDEPT-----LNDLNYSNILING-----SIVANDDESKMVHLIFEG[-----
 Trib_p53A GRIMHEN-----NVHLVNDDGE-----EEKYSNEANYTESTIFEP[-----
 Trib_p53B RQYKPD-----FSHTFHP[IC[SI[QLEDFKFNINQ[SYLSAPIFEP[-----
 Helio_p53 EVSGSELT-----TEEMAFLQ[GLNSGN-----LMQFSSQQS[VLREMMLQDI
 consensus m p a p t v p

Human_p53 PL---SS[SVPSQKTYQGSYGEREGFLH-SGTAKSV[CTYSPALNKMECQ[ERAKTCPVQLWVD
 Xeno_p53 SCAVPSTDYAGKYGLOQDFQQ-NGTAKSV[CTYSP[ELNK[ECQ[ERAKTCPVILVRE
 Squid_p53 VQSP[QPSVPSNIKYPPGEYV[EW[FAQPSKETKSTTWTYSEKLDKLYV[RMATTC[CPVRFKTA
 CPB_p53 VOTSPVPSND[EXDGPYEEFVDP-----TVAKNSWVYSTTLNKVYWTWGSPEPVD[FRVS
 Trib_p53A DOP[PNLGTTEY[GPENF[SYLTS[SP---NEQKSPWEEYSEKLNK[EGENVKEPVAEFSVQ
 Trib_p53B SEP[ELC[NT[EPGP[LFNFEVFP-----NVLKNPWEYSP[LNK[EDMKHKEPENFSV[
 Helio_p53 QIQA[NTLPKLENHNI[GYCESMV[DE-----PPKSLWMMYSIPLNK[LY[ERMNKA[ENVDVQFK
 consensus q svpsqdy g y f 1 v k tw ys lnkmyv ma fpv f v

FIG.-1A

Human_p53 STPP-PGTRVRAMA~~EE~~KQSQHMTETVRRCPHICRSD~~EE~~SDGLAPPQH~~EE~~IRVEGNLR
 Xeno_p53 SPPP-RGSI~~EE~~TRATAV~~EE~~YKKSEHVAEV~~EE~~VKRC~~EE~~PHERSVEP~~EE~~GEDAAPP~~EE~~SHIMRVEGNLQ
 Squid_p53 RPPP-SGCQ~~EE~~IRAMPE~~EE~~YKPEHVQEV~~EE~~VKRC~~EE~~PNHATAKEH~~EE~~NEKHPAPLHIVRCEHKL-
 CPB_p53 HRPP-NPLE~~EE~~TRSTPVI~~EE~~YAPQFAQECVYRCEN~~EE~~EF~~EE~~SHKES-DGDLKEH~~EE~~IRPHI~~EE~~IRCTNDNA~~EE~~
 Trib_p53A NRQPNL~~EE~~PLX~~EE~~TRATPVI~~EE~~SQTQH~~EE~~IFODIV~~EE~~HRCYGH~~EE~~RHPQDQS-NKGVAPH~~EE~~IQHQH~~EE~~IRCDNNNA~~EE~~
 Trib_p53B KADPERR~~EE~~YRVM~~EE~~PW~~EE~~EDRYVQEL~~EE~~IVHRC~~EE~~CEHEQLT~~EE~~DPT-NHNVSEM~~EE~~VAQH~~EE~~IRCDNNNA~~EE~~
 Helio_p53 YQKA-PHME~~EE~~VRST~~EE~~VE~~EE~~SD~~EE~~ETQA~~EE~~KVERC~~EE~~YQH~~EE~~HESS~~EE~~ST~~EE~~GIQTEIAKNVLESSREIGTQG~~EE~~
 Dros_p53 SKMP~~EE~~PIQ~~EE~~LEN~~EE~~RVFLC~~EE~~ESND-~~EE~~V~~EE~~SAPV~~EE~~VRC~~EE~~QNHLS~~EE~~VEPLT---~~EE~~ANNAK~~EE~~RESEI~~EE~~RS~~EE~~EN~~EE~~PN~~EE~~
 consensus pp 1Fvratpvy s hvqevv RC1nne d s d i hirCennna

Human_p53 VEYLD~~EE~~DRNT---~~EE~~FRH~~EE~~SVV~~EE~~V~~EE~~PYEP~~EE~~---~~EE~~PEVGS~~EE~~DCT~~EE~~THY~~EE~~NYM~~EE~~CNS~~EE~~CMG-GMNRRP~~EE~~IT~~EE~~
 Xeno_p53 AYYME~~EE~~DVNS---~~EE~~GRH~~EE~~SV~~EE~~C~~EE~~V~~EE~~PYEG~~EE~~---~~EE~~PQV~~EE~~GTE~~EE~~CT~~EE~~TV~~EE~~LYNYM~~EE~~CNS~~EE~~CMG-GMNRRP~~EE~~IT~~EE~~
 Squid_p53 AKYHE~~EE~~D~~EE~~KYS---~~EE~~GRO~~EE~~SV~~EE~~EP~~EE~~EM---~~EE~~PQAGSE~~EE~~WV~~EE~~VNLYQF~~EE~~CLG~~EE~~SC~~EE~~Y~~EE~~G-GPNRRP~~EE~~IQ~~EE~~
 CPB_p53 AYLGD~~EE~~DKSKN---~~EE~~ERL~~EE~~SV~~EE~~EP~~EE~~GI---~~EE~~PO~~EE~~TGTE~~EE~~SV~~EE~~RE~~EE~~IE~~EE~~F~~EE~~CK~~EE~~N~~EE~~SC~~EE~~P~~EE~~SP~~EE~~GMNRRP~~EE~~RAV~~EE~~
 Trib_p53A EYE~~EE~~GD~~EE~~KNTG---~~EE~~TRL~~EE~~NTV~~EE~~PLAH---~~EE~~PQV~~EE~~GED~~EE~~V~~EE~~VKEF~~EE~~QFV~~EE~~Y~~EE~~CK~~EE~~N~~EE~~SC~~EE~~P~~EE~~L-GMNRRP~~EE~~IT~~EE~~
 Trib_p53B QYE~~EE~~GD~~EE~~KNAG---~~EE~~KRLS---~~EE~~
 Helio_p53 VYYCGKVDM---~~EE~~ADSWY~~EE~~SVLVEF---~~EE~~MRT~~EE~~SS~~EE~~SC~~EE~~SHAY~~EE~~OF~~EE~~SC~~EE~~KN~~EE~~SC~~EE~~AT-~~EE~~GENR~~EE~~AT~~EE~~
 Dros_p53 VYCGNAQG~~EE~~RG~~EE~~GI~~EE~~SERF~~EE~~SVV~~EE~~PLINMSRSV~~EE~~TRSG~~EE~~L~~EE~~TRQ~~EE~~TL~~EE~~AE~~EE~~KEV~~EE~~CON~~EE~~SCI~~EE~~G---~~EE~~RKET~~EE~~SE~~EE~~
 consensus vyygdk r svvvp e pq gse t ynfmc nscmg gmnrrpi 11

FIG.- 1B

Human_p53 NNTSSSP-QPKK---KPLDGEYFTQGREREMFREINATELKDAQAG---
 Xeno_p53 HPSSEPPPLPKKRLVVDDDEEEIFTEREKGRSRYEMIKKNDALELQQ---
 Squid_p53 LTNDITKIPKK---RKIDDCFTTEKVRGRENEYELICKERDIMELAARTEAERLYKQE---
 CPB_p53 KSKKPMQTQAE---NDTKEFTLIEPELVGRHNEQNVLYCHDLMAGEILRN---
 Trib_p53A NDERVVPPQGSS---DNKIFALNNEHFGRKKNYLQALKMCQDMILANEIEKKQ---
 Trib_p53B ---
 Helio_p53 ---
 Dros_p53 IKTEDTESNDSRKDDSSAAEWNVSRTPDGDYRLAETCPNKEWFLQSIEGMIK---
 consensus k e t1 i gr f m k1 e 1 d 1

FIG. 1C

Human_p53	---
Xeno_p53	---
Squid_p53	KCEPENTIAQWLTKLGLQAYIDNFQQKGLHNMFQOLDEFTILEDLQSMRIGTGH
CPB_p53	RNKIWK
Trib_p53A	---
Trib_p53B	---
Helio_p53	---
Dros_p53	---
consensus	---
Human_p53	---
Xeno_p53	---
Squid_p53	LLDYRLLSSGTESQALQHAASNASTLSVGSQNSYCPGFYEVTRYKHTISYL
CPB_p53	---
Trib_p53A	---
Trib_p53B	---
Helio_p53	---
Dros_p53	---
consensus	---

FIG.- 1D